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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In Re Application Of   Atty. Docket

MIROSLAV TRAJKOVIC   US010581

Serial No. 09/993,061   Group Art Unit: 2621

Filed: NOVEMBER 5, 2001   Examiner:

Title: METHOD FOR COMPUTING OPTICAL FLOW UNDER THE EPIPOLAR
CONSTRAINT

Honorable Commissioner of Patents and Trademarks
Washington, D.C. 20231

PRELIMINARY AMENDMENT

Sir:

Prior to examination, please enter the following amendment.

IN THE CLAIMS

Please amend the claims as follows:

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1. (currently amended) A system for computing optical flow
between images within an image sequence comprising:

an image processor processing the image sequence, wherein the
image processor:

derives epipolar geometry for the images from point matches
between the images; and

computes optical flow for each pixel within at least one of
the images under a constraint derived from the epipolar geometry by
computing a component of the optical flow using a median.